

DC 180kW Fast Charger

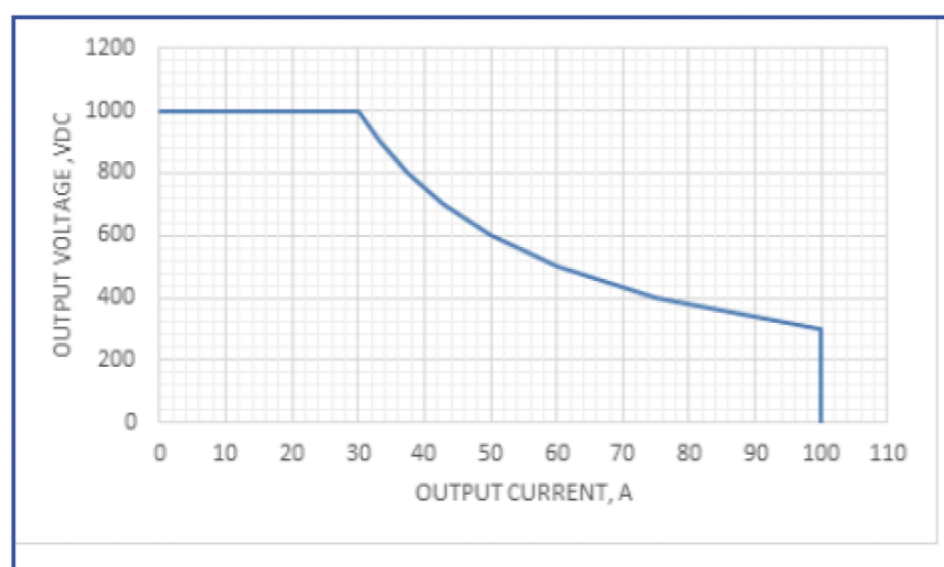


DC | DC 180kW Charger Floor Standing

Main Features

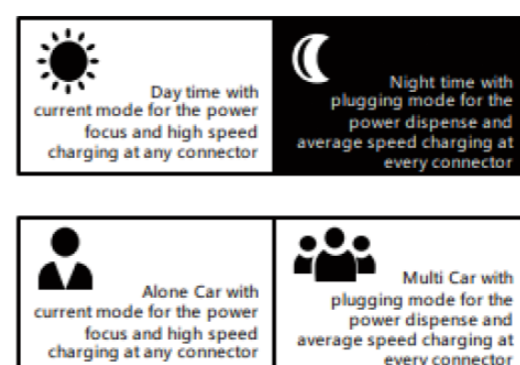
- CCS1 / CCS2 / CHAdeMO / NACS / GBT Global EV Charging standard support
- Liquid cooled power module for high protection and high reliability for harsh environment
- IP65 design, anti-salt spray and condensation protection for high protection and high reliability in harsh environment
- Low audio voice less than 60 dB
- 180kW output power with 250A output current, optional 300A, 375A and liquid cooling 500A charging cable
- Optional CoolRing™ function realizes the power transfer between the two chargers to get max 360kW in one charging cable
- OCPP 1.6 J support with update firmware to 2.0, P&C, smart charge and power management support
- User friendly interface with tempered glass protective 7" TFT capacitive touch screen LCD
- Multiple charging modes: Auto basis, Time basis, Amount basis, Energy basis, SOC basis
- Multiple power distribution modes: Stand alone, Current switch, Plug switch, Full hold, Master slave
- Two charging cable retractors, light bar design
- LAN and LTE wireless support, OTA support, RFID authorization, Credit card reader and Mobile App payment support

Liquid cooled 30kW Power module charging curve



How Does the CoolRing™ work with Two 180kW Chargers?

Each charging cable can get full 360kW power when Cool Ring works. All the 4 charging cables of the two chargers can get 90kW power at the same time. 90kW power group switch step between the 4 charging cables when power idle.



Specification (Max 180kW, 1000VDC, IP65)

Version:		180kW
Model:		EM180K4
Input Parameters	AC Frequency	45-65Hz
	AC Voltage	3-phase+N+PE, 260Vac-530Vac
	Power Factor	>0.99
	Total Harmonic Current	<3% (Rated input)
Output Parameters	DC Voltage Accuracy	<±0.5%
	Output DC Voltage Range	DC 150V-1000V
	Max DC Output Current	180A/1000V, 240A/750V, 360A/500V, 600A/300V
	Max DC Output Power	180kW
	Max System Efficiency	>95% (Rated Input and Output)
	Noise	<60dB
Working Environment	Ambient Temperature	Ambient Temperature: -25 ~ +50°C, Full power output below 45°C, Power derating 5W/°C above 45°C
	Storage Temperature	-40°C ~ +75°C
	Working Humidity	0 ~ 95%
	Working Altitude	2000 m
Standards	CCS PLC Communication	DIN70121 and ISO15118
	CHAdeMO	CHAdeMO V1.2
	GB/T	GB/T 18487.1-2015, GB/T 27930-2015, GB/T 20234.1-3-2015
	EMC/Safety	EMC: EN IEC 61851-21-2:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019 Safety: EN IEC 61851-1:2019, EN 61851-23:2014, EN 61851-24:2014
	Protection Class	IP65/IK10
Functional & Interface	HMI	7" TFT Touch Screen LCD with tempered glass protection, RFID, RGB panel LED, Credit card reader (optional)
	Metering	2 DC energy meters, GB/T 50063-2008 and DL/T 5137-2008 standards
	Monitor Interface	OCPP 1.6J, LAN 10M/100M, inner LTE wireless modem
	Charging Modes	Auto basis, Time basis, Amount basis, Energy basis, SOC basis
	Power Distribution Modes	Stand alone, Current switch, Plug switch, Full hold
Mechanical	Dimension WxHxD (mm)	700 × 1995 × 850 mm
	Weight (kg)	400kg
Charging Protection		Overcurrent, Short circuit, Overvoltage, Undervoltage protection
		Insulation monitoring, Earth connection monitoring
		Reverse polarity, Overtemperature protection
		RCD-A main protection
Configuration	Charger Module	6 slots for liquid-cooled LRG1K0100G 1000V30kW modules
	Charging Cable Options	2 × CCS / NACS / GBT or CCS + NACS / GBT / CHAdeMO
	Cable Capacity	CCS: 250A (optional 300A, 375A, 500A liquid-cooled), NACS: 300A, GBT: 400A, CHAdeMO: 200A

*Optional